What is claimed is:

- 5
 A cyclosporin analog of form
 - 1. A cyclosporin analog of formula (I) or a pro-drug or a pharmaceutically acceptable salt thereof:

— A---B---Sar-MeLeu-Val MeLeu-Ala---U---MeLeu-MeLeu-MeVal — 1 2

(I)

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wherein,

(a) A is of the formula:

(R) (R) OH
Me^M (S) OH
Me O

wherein

Χ

is absent, -C1-C6 alkyl-, or -C3-C6 cycloalkyl-; is selected from the group consisting of:

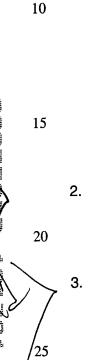
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- i. -C(O)-O-R1 where R1 is hydrogen, C1-C6 alkyl optionally substituted with halogen, heterocyclics aryl, C1-C6 alkoxy or C1-C6 alkylthio, halogen substituted C1-C6 alkoxy, halogen substituted C1-C6 alkylthio;
- ii. -C(O)-S-R1 where R1 is hydrogen, C1-C6 alkyl optionally substituted with halogen, heterocyclics, aryl, C1-C6 alkoxy or C1-C6 alkylthio, halogen substituted C1-C6 alkoxy, halogen substituted C1-C6 alkylthio;

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iii. -C(O)-OCH2-OC(O)R2 where R2 is C1-C6 alkyl, optionally substituted with halogen, C1-C6 alkoxy, C1-C6 alkylthio, heterocyclics or aryl;

iv. -C(S)-O-R1 where R1 is hydrogen, C1-C6 alkyl optionally substituted with halogen, heterocyclics, aryl, C1-C6 alkoxy or C1-C6 alkylthio, halogen substituted C1-C6 alkoxy, halogen substituted C1-C6 alkylthio; and

v. C(S)-S-R1 where R1 is hydrogen, C1-C6 alkyl optionally substituted with halogen, heterocyclics, aryl, C1-C6 alkoxy or C1-C6 alkylthio, halogen substituted C1-C6 alkoxy, halogen substituted C1-C6 alkylthio.

(b) B is $-\alpha$ Abu-, -Val-, -Thr- or -Nva-; and

(c) U is -(D)Ala-, -(D)Ser- or -[O-(2-hydroxyethyl)(D)Ser]-; or -[O-(2-acyloxyethyl)(D)Ser]-.

A cyclosporin analog according to Claim 1 or a pro-drug or a pharmaceutically acceptable salt thereof, wherein in formula (I), B is -αAbu-, and U is -(D)Ala-.

A cyclosporin analog according to Claim 1 or a pro-drug or a pharmaceutically acceptable salt thereof, wherein in formula I:

(i) A is of the formula A1 or A2, wherein:

X is absent; and

Y is selected from a group consisting of:

i. -C(O)-O-R1 where R1 is hydrogen, C1-C6 alkyl optionally substituted with halogen, heterocyclics, aryl, C1-C6 alkoxy or C1-C6 alkylthio, halogen substituted C1-C6 alkoxy, halogen substituted C1-C6 alkylthio;

ii. -C(O)-S-R1 where R1 is hydrogen, C1-C6 alkyl optionally substituted with halogen, heterocyclics, aryl, C1-C6 alkoxy or C1-C6 alkylthio, halogen substituted C1-C6 alkoxy, halogen substituted C1-C6 alkylthio; and

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- iii. C(O)-OCH₂-OC(O)R₂ where R₂ is C1-C6 alkyl optionally substituted with halogen, C1-C6 alkoxy, C1-C6 alkylthio, heterocyclics or aryl;
- (ii) B is -αAbu-; and
 - (iii) U is -(D)Ala-.
- 4. A cyclosporin analog according to claim 1 or a pro-drug or a pharmaceutically acceptable salt thereof, selected from the group consisting of:

Compound of Formula (I) wherein $B = -\alpha Abu$ -, U = -(D)Ala-, X is absent, Y = -COOCH₃:

Compound of Formula (I) wherein $B = -\alpha Abu$ -, U = -(D)Ala-, X is absent, Y = -COOH;

Compound of Formula (I) wherein $B = -\alpha Abu$ -, U = -(D)Ala-, X is absent, Y = -COOEt:

Compound of Formula (I) wherein $B = -\alpha Abu$ -, U = -(D)Ala-, X is absent, Y = -COOCH₂CH₂CH₃:

Compound of Formula (I) wherein $B = -\alpha Abu$ -, U = -(D)Ala-, X is absent, $Y = -COOCH_2Ph$;

Compound of Formula (I) wherein $B = -\alpha Abu$ -, U = -(D)Ala-, X is absent, Y = -COOCH₂F;

Compound of Formula (I) wherein B $\neq -\alpha$ Abu-, U = -(D)Ala-, X is absent, Y = -COOCHF₂;

Compound of Formula (I) wherein B = $-\alpha$ Abu-, U = -(D)Ala-, X is absent, Y = -COOCF₃:

Compound of Formula (I) wherein $B = -\infty Abu$ -, U = -(D)Ala-, X is absent, $Y = -COOCH_2CF_3$;

Compound of Formula (I) wherein $B = -\alpha hbu$, U = -(D)Ala, X is absent, Y

= -COOCH₂CI; Compound of Formula (I) wherein $B = -\alpha Abu$, U = -(D)Ala-, X is absent, Y = -COOCH₂OCH₃:

Compound of Formula (I) wherein $B = -\alpha Abu_1^{\dagger}$, U = -(D)Ala-, X is absent, Y = -COOCH₂OCH₂CH₂O CH₃;

Compound of Formula (I) wherein $B = -\alpha Abu$ -, U = -(D)Ala-, X is absent, $Y = -C(=O)SCH_2Ph$;

Compound of Formula (I) wherein $B = -\alpha Abu$ -, V = -(D)Ala-, X is - $CH_2CH_2CH_2$ -, $Y = -COOCH_3$; and

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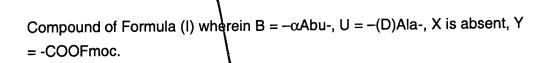
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- 5. A chemical process for preparing a cyclosporin analog of formula I as claimed in Claim 1, comprising:
 - a. reacting a compound of formula I, wherein A= -MeBmt- with:
 - i. an olefin of formula CH2=CH-X-Y, wherein X and Y are as defined in Claim 1; and
 - ii. a catalyst;

in the presence of a lithium salt in an organic solvent; and

- b. hydrogenating the product of step a in an organic solvent under hydrogen with a catalyst;
 and optionally converting the product of said reaction into a pharmaceutically acceptable salt.
- 6. The chemical process as claimed in Claim 5, wherein the catalyst in step (a) (ii) is Grubb's ruthenium alkylidene, Nolan's catalyst, a benzylidene catalyst or a molybdenum catalyst.
- 7. The chemical process as claimed in Claim 5, wherein step (b) is performed at room temperature.
 - 8. The chemical process as claimed in Claim 7, wherein the catalyst in step (b) is Palladium on carbon.
 - 9. A pharmaceutical composition, said composition comprising at least one cyclosporin analog of formula 1 as claimed in Claim 1, said cyclosporin analog being present alone or in combination with a pharmaceutically acceptable carrier or excipient.
 - 10. A method for treating diseases characterized by airflow obstruction in a subject in need of treatment which comprises the step of administering to said subject a therapeutically effective amount of at least one cyclosporin analog of formula I as claimed in Claim 1.
 - 11. The method of Claim 10, wherein said disease is asthma.

